



OIEP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/010,720

DATE: 05/31/2002
TIME: 11:58:05

Input Set : A:\LEX-0382-USA SEQLIST.txt
Output Set: N:\CRF3\05312002\J010720.raw

ENTERED

4 <110> APPLICANT: Walke, D. Wade
5 Hilbun, Erin
6 Donoho, Gregory
7 Turner, C. Alexander Jr.
8 Hansen, Gwenn
9 BeltrandelRio, Hector
10 Van Sligtenhorst, Isaac
12 <120> TITLE OF INVENTION: Novel Human Kinases and Polynucleotides
13 Encoding the Same, And Uses Thereof
15 <130> FILE REFERENCE: LEX-0382-USA
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/010,720
C--> 17 <141> CURRENT FILING DATE: 2002-05-21
17 <150> PRIOR APPLICATION NUMBER: US 60/206,015
18 <151> PRIOR FILING DATE: 2000-05-19
20 <150> PRIOR APPLICATION NUMBER: US 09/854,856
21 <151> PRIOR FILING DATE: 2000-05-14
23 <160> NUMBER OF SEQ ID NOS: 64
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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28 <211> LENGTH: 7149
29 <212> TYPE: DNA
30 <213> ORGANISM: Homo sapiens
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35 gccgcggccg ccgacgctgt gaccggcagg accgaggagt acaggcgccg ccgccacact 180
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41 agcaaagacc gccagtgtc ccagcctagc cttgtgggga gcaaagagga gccgcgcg 540
42 gcgagaagtg gcagcgcg gcgcagcgc aaggagccac aggaggaacg gagccagcag 600
43 caggatgata tcgaagagct ggagaccaag gccgtgggaa tgtctaacga tggccgcttt 660
44 ctcaagtttg acatcgaaat cggcagaggc tcttttaaga cgttctacaa aggtctggac 720
45 actgaaacca ccgtggaagt cgcttggtgt gaactgcagg atcgaaaatt aacaaagtct 780
46 gagaggcaga gatttaaga agaagctgaa atgttaaaag gtcttcagca tcccaatatt 840
47 gttagatttt atgattcctg ggaatccaca gtaaaaggaa agaagtgcac tgttttggtg 900
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49 atcaaagttc taagaagctg gtgccgtcag atccttaaaag gtcttcagtt tcttcatact 1020
50 cgaactccac ctatcattca ccgcgatctt aaatgtgaca acatctttat caccggccct 1080
51 actggctcag tcaagattgg agacctcggt ctggcaaccc tgaagcgggc ttcttttgcc 1140
52 aagagtgtga taggtacccc agagttcatg gccctgaga tgtatgagga gaaatatgat 1200

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54	ccttactcgg	agtgccaaaa	tgtgacacag	atctaccgtc	gcgtgaccag	tggggtgaag	1320
55	ccagccagtt	ttgacaaagt	agcaattcct	gaagtgaagg	aaattattga	aggatgcata	1380
56	cgacaaaaca	aagatgaaag	atattccatc	aaagaccttt	tgaaccatgc	cttcttccaa	1440
57	gaggaaacag	gagtaagggt	agaattagca	gaagaagatg	atggagaaaa	aatagccata	1500
58	aaattatggc	tacgtattga	agatattaag	aaattaaagg	gaaaatacaa	agataatgaa	1560
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60	gtagagtctg	ggtatgtctg	tgaagggtgat	cacaagacca	tggctaaagc	tatcaaagac	1680
61	agagtatcat	taattaagag	gaaacgagag	cagcggcagt	tggtagggga	ggagcaagaa	1740
62	aaaaaaaaagc	aggaagagag	cagtctcaaa	cagcaggtag	aacaatccag	tgcttcccag	1800
63	acaggaatca	agcagctccc	ttctgctagc	accggcatac	ctactgcttc	taccacttca	1860
64	gcttcagttt	ctacacaagt	agaacctgaa	gaacctgagg	cagatcaaca	tcaacaacta	1920
65	cagtaaccagc	aaccagtat	atctgtgtta	tctgatggga	cggttgacag	tggtcaggga	1980
66	tcctctgtct	tcacagaatc	tcgagtgage	agccaacaga	cagtttcata	tggttcccaa	2040
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68	cagtctcagc	cccatggggt	atatccaccc	tcaagtgtgg	cacaggggca	gagccagggt	2160
69	cagccatcct	caagtagctt	aacaggggtt	tcattcttccc	aaccataaca	acatcctcag	2220
70	cagcagcagg	gaatacacga	gacagccctt	cctcaacaga	cagtgcagta	ttcactttca	2280
71	caagacatcaa	cctccagtga	ggccactact	gcacagccag	tgagtcagcc	tcaagctcca	2340
72	caagtcttgc	ctcaagtatc	agctggaaaa	cagcttccag	tttcccagcc	agtaccaact	2400
73	atccaaggcg	aacctcagat	cccagttgcg	acacaacctt	cggttgttcc	agtcactctt	2460
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75	gtctctcaga	ttcccatatc	aactcctcat	gtgtctacgg	ctcagacagg	tttctcatcc	2580
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79	tcctatggga	taccagctaa	ccttgacaaa	gctgctgagg	ttccactttc	ctctggagat	2820
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85	ggagtctctc	aggttgctcc	tgcagagcca	ggtgcagtag	cacagcccca	agctaccag	3180
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87	gatggcaatg	agaacgtccc	atcttccagt	ggaaggcatg	aaggaagaac	tacaaaacgg	3300
88	cattaccgaa	aatctgtaag	gagtcgctct	cgacatgaaa	aaacttcacg	cccaaaatta	3360
89	agaattttga	atgtttcaaa	taaaggagac	cgagttagtag	aatgtcaatt	agagactcat	3420
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93	gagggtgatc	agggattgga	gagtcataca	ggaaaggatg	actatggctt	ttcaggttct	3660
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98	cttagtctac	aacaggcctt	ttctgaactt	agacgtgccc	aatgacaga	aggacccaay	3960
99	acagcacctc	caaacttttag	tcatacagga	ccaacatttc	cagtagtacc	tcctttctta	4020
100	agtagcattg	ctggagtccc	aaccacagca	gcagccacag	caccagtccc	tgcaacaagc	4080
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105	gttgtttcta	gtacagcact	gtatccttca	gtaacagttt	cagcaacttc	agcctctgca	4380
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107	ggcagcacta	ctgtgggagc	cacattaaca	tcagttttcta	ccaccaacttc	attcccaagc	4500
108	acagcttcac	agctgtccat	tcagcttagc	agcagtaact	ctactcctac	tttagctgaa	4560
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123	agaagaacac	ttagtccaga	gatkatacaca	gtgacttctg	cggttggtcc	tgtgtccatg	5460
124	gcggtctcaa	cagcaatcac	agaagcagga	acacagcctc	agaaggggtg	ttctcaagtc	5520
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149	tgccccccac	agcagtatgg	ctttccagct	accccatttg	gcgctcaatg	gagtgggacg	7020
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152 accacttag                                     7149
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157 <211> LENGTH: 2382
158 <212> TYPE: PRT
159 <213> ORGANISM: Homo sapiens
161 <220> FEATURE:
162 <221> NAME/KEY: VARIANT
163 <222> LOCATION: (1)...(2382)
164 <223> OTHER INFORMATION: Xaa = Any Amino Acid
166 <400> SEQUENCE: 2
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169 Phe Leu Ser Pro Pro Ala Pro Ala Pro Lys Asn Gly Ser Ser Ser Asp
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171 Ser Ser Val Gly Glu Lys Leu Gly Ala Ala Ala Asp Ala Val Thr
172          35          40          45
173 Gly Arg Thr Glu Glu Tyr Arg Arg Arg Arg His Thr Met Asp Lys Asp
174          50          55          60
175 Ser Arg Gly Ala Ala Ala Thr Thr Thr Thr Thr Glu His Arg Phe Phe
176 65          70          75          80
177 Arg Arg Ser Val Ile Cys Asp Ser Asn Ala Thr Ala Leu Glu Leu Pro
178          85          90          95
179 Gly Leu Pro Leu Ser Leu Pro Gln Pro Ser Ile Pro Ala Ala Val Pro
180          100         105         110
181 Gln Ser Ala Pro Pro Glu Pro His Arg Glu Glu Thr Val Thr Ala Thr
182          115         120         125
183 Ala Thr Ser Gln Val Ala Gln Gln Pro Pro Ala Ala Ala Ala Pro Gly
184          130         135         140
185 Glu Gln Ala Val Ala Gly Pro Ala Pro Ser Thr Val Pro Ser Ser Thr
186 145         150         155         160
187 Ser Lys Asp Arg Pro Val Ser Gln Pro Ser Leu Val Gly Ser Lys Glu
188          165         170         175
189 Glu Pro Pro Pro Ala Arg Ser Gly Ser Gly Gly Gly Ser Ala Lys Glu
190          180         185         190
191 Pro Gln Glu Glu Arg Ser Gln Gln Asp Asp Ile Glu Glu Leu Glu
192          195         200         205
193 Thr Lys Ala Val Gly Met Ser Asn Asp Gly Arg Phe Leu Lys Phe Asp
194          210         215         220
195 Ile Glu Ile Gly Arg Gly Ser Phe Lys Thr Val Tyr Lys Gly Leu Asp
196 225         230         235         240
197 Thr Glu Thr Thr Val Glu Val Ala Trp Cys Glu Leu Gln Asp Arg Lys
198          245         250         255
199 Leu Thr Lys Ser Glu Arg Gln Arg Phe Lys Glu Glu Ala Glu Met Leu
200          260         265         270
201 Lys Gly Leu Gln His Pro Asn Ile Val Arg Phe Tyr Asp Ser Trp Glu
202          275         280         285
203 Ser Thr Val Lys Gly Lys Lys Cys Ile Val Leu Val Thr Glu Leu Met
204          290         295         300

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205 Thr Ser Gly Thr Leu Lys Thr Tyr Leu Lys Arg Phe Lys Val Met Lys
206 305 310 315 320
207 Ile Lys Val Leu Arg Ser Trp Cys Arg Gln Ile Leu Lys Gly Leu Gln
208 325 330 335
209 Phe Leu His Thr Arg Thr Pro Pro Ile Ile His Arg Asp Leu Lys Cys
210 340 345 350
211 Asp Asn Ile Phe Ile Thr Gly Pro Thr Gly Ser Val Lys Ile Gly Asp
212 355 360 365
213 Leu Gly Leu Ala Thr Leu Lys Arg Ala Ser Phe Ala Lys Ser Val Ile
214 370 375 380
215 Gly Thr Pro Glu Phe Met Ala Pro Glu Met Tyr Glu Glu Lys Tyr Asp
216 385 390 395 400
217 Glu Ser Val Asp Val Tyr Ala Phe Gly Met Cys Met Leu Glu Met Ala
218 405 410 415
219 Thr Ser Glu Tyr Pro Tyr Ser Glu Cys Gln Asn Ala Ala Gln Ile Tyr
220 420 425 430
221 Arg Arg Val Thr Ser Gly Val Lys Pro Ala Ser Phe Asp Lys Val Ala
222 435 440 445
223 Ile Pro Glu Val Lys Glu Ile Ile Glu Gly Cys Ile Arg Gln Asn Lys
224 450 455 460
225 Asp Glu Arg Tyr Ser Ile Lys Asp Leu Leu Asn His Ala Phe Phe Gln
226 465 470 475 480
227 Glu Glu Thr Gly Val Arg Val Glu Leu Ala Glu Glu Asp Asp Gly Glu
228 485 490 495
229 Lys Ile Ala Ile Lys Leu Trp Leu Arg Ile Glu Asp Ile Lys Lys Leu
230 500 505 510
231 Lys Gly Lys Tyr Lys Asp Asn Glu Ala Ile Glu Phe Ser Phe Asp Leu
232 515 520 525
233 Glu Arg Asp Val Pro Glu Asp Val Ala Gln Glu Met Val Glu Ser Gly
234 530 535 540
235 Tyr Val Cys Glu Gly Asp His Lys Thr Met Ala Lys Ala Ile Lys Asp
236 545 550 555 560
237 Arg Val Ser Leu Ile Lys Arg Lys Arg Glu Gln Arg Gln Leu Val Arg
238 565 570 575
239 Glu Glu Gln Glu Lys Lys Lys Gln Glu Ser Ser Leu Lys Gln Gln
240 580 585 590
241 Val Glu Gln Ser Ser Ala Ser Gln Thr Gly Ile Lys Gln Leu Pro Ser
242 595 600 605
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244 610 615 620
245 Thr Gln Val Glu Pro Glu Glu Pro Glu Ala Asp Gln His Gln Gln Leu
246 625 630 635 640
247 Gln Tyr Gln Gln Pro Ser Ile Ser Val Leu Ser Asp Gly Thr Val Asp
248 645 650 655
249 Ser Gly Gln Gly Ser Ser Val Phe Thr Glu Ser Arg Val Ser Ser Gln
250 660 665 670
251 Gln Thr Val Ser Tyr Gly Ser Gln His Glu Gln Ala His Ser Thr Gly
252 675 680 685
253 Thr Val Pro Gly His Ile Pro Ser Thr Val Gln Ala Gln Ser Gln Pro

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 977,1808
Seq#:4; Xaa Pos. 977,1808
Seq#:6; Xaa Pos. 977
Seq#:8; Xaa Pos. 824,1655
Seq#:10; Xaa Pos. 824,1655
Seq#:12; Xaa Pos. 824
Seq#:14; Xaa Pos. 1562
Seq#:16; Xaa Pos. 1562
Seq#:18; Xaa Pos. 949,1780
Seq#:20; Xaa Pos. 949,1780
Seq#:22; Xaa Pos. 949
Seq#:24; Xaa Pos. 796,1627
Seq#:26; Xaa Pos. 796,1627
Seq#:28; Xaa Pos. 796
Seq#:30; Xaa Pos. 1534
Seq#:32; Xaa Pos. 1534
Seq#:34; Xaa Pos. 917,1748
Seq#:36; Xaa Pos. 917,1748
Seq#:38; Xaa Pos. 917
Seq#:40; Xaa Pos. 764,1595
Seq#:42; Xaa Pos. 764,1595
Seq#:44; Xaa Pos. 764
Seq#:46; Xaa Pos. 1502
Seq#:48; Xaa Pos. 1502
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Seq#:52; Xaa Pos. 889,1720
Seq#:54; Xaa Pos. 889
Seq#:56; Xaa Pos. 736,1567
Seq#:58; Xaa Pos. 736,1567
Seq#:60; Xaa Pos. 736
Seq#:62; Xaa Pos. 1474
Seq#:64; Xaa Pos. 1474